FLA. DEPT. OF AGR.
DIV. OF PLANT INDUSTRY

AN ARMORED SCALE (MORGANELLA LONGISPINA (MORGAN)) ON HAITIAN CITRUS (HOMOPTERA: COCCIDAE)

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INTRODUCTION: THE DIVISION OF PLANT INDUSTRY INTERCEPTED FRESH ORANGE IMPORTATIONS FROM HAITI INTO FLORIDA IN 1964 THAT WERE INFESTED WITH AN ARMORED SCALE, MORGANELLA LONGISPINA (MORGAN). THE SCALE HAS ALSO BEEN REPORTED ON THE BARK OF HOSTS. IN BRAZIL THE SCALE IS KNOWN AS MASKELL SCALE, MORGANELLA MASKELLI (COCKERELL), A SYNONYM OF MORGANELLA LONGISPINA (MORGAN). PREPARED SLIDE MOUNTS ARE NOW DEPOSITED IN THE FLORIDA STATE COLLECTION OF ARTHROPODS, CURATED BY THE DIVISION OF PLANT INDUSTRY, GAINESVILLE, FLORIDA.

DISTRIBUTION: ALGERIA, BRAZIL, BRITISH GUIANA, CEYLON, HAWAIIAN ISLANDS, INDIA, MAURITIUS, SANDWICH ISLANDS, SOUTH AFRICA, TAHITI, AND HAITI.

HOSTS: AKEE (BLIGHIA SAPIDA KOENIG), CAMELLIA, CITRUS, "CHINA ORANGE"?, MANGO (MANGIFERA INDICA L.), AND MICHELIA FLAVA.

DESCRIPTION: THE ADULT FEMALE ARMOR IS SLATE GRAY TO BLACK, CIRCULAR, CONVEX AND 1MM IN DIAMETER; THE EXUVIAE IS CENTRAL. THE PRE-ADULT MALE ARMOR IS SLATE GRAY TO BLACK, RECTILINEAR, ABOUT 1MM IN LENGTH AND 0.5MM IN WIDTH; THE EXUVIAE IS NEAR ONE END.

EVERY EFFORT IS BEING MADE BY THE DIVISION OF PLANT INDUSTRY AND USDA PLANT QUARANTINE DIVISION TO PREVENT IT FROM BECOMING ESTABLISHED IN FLORIDA.

CONTROL: INFESTED FRUIT IS FUMIGATED WITH HCN (HYDROCYANIC ACID GAS).

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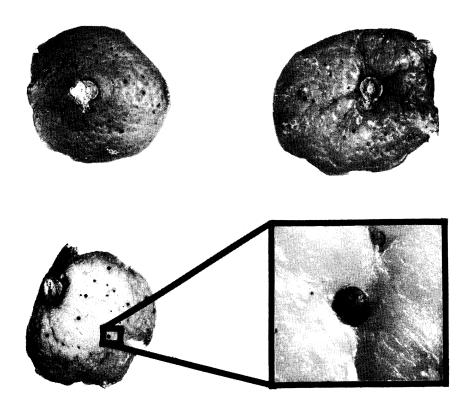


Fig. 1. Armored scale (Morganella Longispina (Morgan)) infesting the Peel of Orange (Natural Size). Insert of female scale enlarged 10 times.